				O E Ve	\	
Substitute	for Form 1449/	PTO			Complete	if Known
	INFO	RM	ATION DISCLOSUR	H 3 300	Application Number	09/895,787
	27.12			HAR 1 5 2004	fifing Date	06/30/2001
	STAT	EM	ENT BY APPLICAN	\mathbf{I}	irst Named Inventor:	Emir Gurer
		(MZE	as many sheets as necessary)	ATENTA TO	Art Unit	1752
					Examiner Name	Gilliam, Barbara Lee
Sheet	1		of 3	T	Attorney Docket Number	6601P019X3
			U.S. PATEN	T DOCUMENTS	5	
Examiner Initials*	Cite No.		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages
		Num	ber-Kind Code ¹ (if taova)			or Relevant Figures Appear
36		U\$-	3,198,657	08-03-1965	Kimball et al.	
elon		US	4,551,355	11-05-1985	Ericson et al.	-
26		US-	5,985,363	11-16-1999	Shiau et al.	T
		US-				
		US	.			
		US-				
		US-				
		US-				
		US-				
		US-				
	1.	US-				

Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	Т
initials*	No.'	Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
3/67		JP 3-22428 A	01-30-1991	NEC Kyushu Ltd.		 x
200		JP 4-332116 △	11-19-1992	Mitsubishi Electric Corp.		X
45	•	JP 8-168715 A	07-02-1996	Dainippon Screen Mfg. Co. Ltd.		X
367		JP 63-301520 A	12-08-1988	NEC Corp.		X

Examiner	Ω.	A.14		Date Considered	
Signature	Sautana	Cillian	<u> </u>		4/10/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

	•	•			<u></u>	OF	\sim
Substitute fo	r Form 14	49/PTO		Co	mplete if Known	<u>/o``</u>	0
INFO)RMA	TION DISC	LOSURE	Application Number	09/895,787	we 152	100
				Filing Date	06/30/2001	I May .	
STA		ENT BY APP		First Named Inventor:	Emir Gurer	S.	
	(use a	is many sheets as necessa	מי)	Art Unit	1752	COLUMN TO SERVICE SERV	
				Examiner Name	Gilliam, Barba	ra Lee	
Sheet	2	of 3		Attorney Docket Number	6601P019X3		
			NON PATENT L	ITERATURE DOCUMENTS		*	
Examiner Initials*	Cite No ¹		journal, serial, symp	AL LETTERS), title of the article osium, catalog, etc.), date, page(s), ty and/or country where published			Т
94		Manufacturing, 19 pgs. 35-36 (1996)	996 Display Manu	on Coating of Polymer Films for facturing Technology Conferen	ce, Digest of Techni	cal Papers,	
			AN EPHRAIM, St unesota, June 1982	ability Of A Coating Flow, PhD	Dissertation submit	ted to the	
			f Applied Physics,	The effects of gas phase convect Vol. 73, No. 2, January 15, 199			-
				Modeling of Spin Coating, Jour 7, pgs. 122-130, © 1987, SPSE			
			, Modern Coating ablishers, Inc., (199	And Drying Technology, Chapt 92).	er 4, Premetered Coa	ating, pgs.	
			D G., ET AL., Flo No. 5, May 1958,	w of a Viscous Liquid on a Rot pgs. 858-862.	ating Disk, Journal C	Of Applied	0_
		coating of viscous 1994, pgs. 1491-1	Newtonian and no 504, © 1994 Ame	in experimental study of rivulet on-Newtonian fluids, Physics of rican Institute of Physics.	Fluids, Vol. 6, No.	4, April	
	·	Chapter V, pgs. 9 Brisbane Toronto	6-138, A Wiley-In Singapore (1992).		ley & Sons, New Yo	rk Chichester	
		Technology, Volu	me 37, Number 6, naging Science an		s. 615-627, © 1993,	1S&T-	
		Journal of Applied Institute of Physic	d Physics, Vol. 73, es.	ispersion on propagation of a di No. 2, January 15, 1993, pgs. 5	113-521, © 1993 Am	erican	
Ţ			Chemical Engine	Pressure And Viscous Pressure ering Science, Vol. 35, pgs. 673			

Examiner	<i>o</i> ,	CALL	Dat	te Considered	,
Signature	<u>8. C.</u>	Gilliam			4/10/04

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Printed in Great Britain.

¹Applicant's unique citation designation number (optional). ¹Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application.

Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

	<u> </u>	•				 		JOE.	<u> </u>
Substitu	te for	Form 144	9/PTO				ete if Known	(<u>)</u>	-6,\ -
IN	FΟ	RMA'	TION	DISC	LOSURE	Application Number	09/895,787	118 157	10 E.
						Filing Date	06/30/2001	Man .	
S	Al				LICANT	First Named Inventor:	Emir Gurer	Cons.	
		(use as	many shee	is as necessa	אט	Art Unit	1752	- CONTAIN	
						Examiner Name	Gilliam, Barba	ura Lee	·
Sheet]	3		of 3		Attorney Docket Number	6601P019X3	··	
					NON PATENT LIT	ERATURE DOCUMENTS			
Exami Initial		Cite No ¹	(book	, magazine,	journal, serial, sympos city	L LETTERS), title of the article (who ium, catalog, etc.), date, page(s), volu and/or country where published	ume-issue number	(s), publisher,	T²
级			10, Oct	tober 1988	, pgs. 2786-2795, ©	spin coating of polymer films, Ph 1988 American Institute of Physic	cs.		
			Engine Britain	ering Scien	nce, Vol. 47, No. 7, p	mum Wet Thickness In Extrusion logs. 1703-1713, © 1992 Pergamo	n Press plc, Prin	ted in Great	
						teristics of resist films produced b 1978, pgs. 3993-3997, © 1978 A			
						Dynamic Wetting Process Using nber 1989, pgs. 1521-1526.	Laser-Dopper V	elocimetry,	,
			Science	e, 1976, Vo	ol. 31, pgs. 1057-106	Flow In A Pre-Metered Coating D 60, Pergamon Press. Printed in G	reat Britain.		
						Journal of Imaging Technology, ociety of Photographic Scientists			
					, Slot coating: Fluid inesota, September 1	mechanics And die design, PhD I 990.	Dissertation subi	mitted to the	
		·							
Examine	:t					I D	ate Considered		

Inis collection of information is required by 37 CFR 1.78. The information is required to obtain or retain a bettern by the puttie which is to fire (and by the OSP 10 to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to ambient.

form with next communication to applicant.

Applicant's unique citation designation number (optional).

Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application.

Substitute	for Form 1449	/PTO			Complete i	if Known
	INFOR	ΑΛΔ	TION DISCLOSUR	F	Application Number	09/895,787
IP					Filing Date	June 30, 2001
\ 0,, ,	* STATE	EME	ENT BY APPLICAN s many sheets as necessary)	T	First Named Inventor:	Gurer Emir
	4400				Art Unit	1752
MAR 14	MAR 14 2005				Examiner Name	Gilliam, Barbara Lee
Speet	148		of	4	Attorney Docket Number	006601.P019X3
PAD			US PATEN	IT DOCUMENTS		
Examiner Initials*	Cite No.	Num	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-				
		US-				
	ļ	US-				
	ļ	US	<u> </u>			
		US-			· · · · · · · · · · · · · · · · · · ·	
	<u> </u>	US-				
		US-	·	·		
		US-				
		US-				
· · · · · · · · · · · · · · · · · · ·		US-				
3		us-				
		US-				
		US-				
		US-	1			

	FOREIGN PATENT DOCUMENTS											
Examiner Initials*	Cite No.¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т°						
95		JP 05-021306	01-29-1993	Cannon Sales Co Inc.								
1		JP 02-098126	04-10-1990	Oki Electric Ind Co Ltd								
		JP 04-361524	12-15-1992	Toshiba Corp								
1		JP 61-02925	06-14-1984	Toyoda Autom Loom Works Ltd								
श्र		JP 63-032921	02-12-1988	Daikin Ind Ltd								

	7	· · · · · · · · · · · · · · · · · · ·			
Examiner				Date Considered	
Signature	1 8.L.	Gilliam			10/1/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \(^1\)Applicant's unique citation designation number (optional). \(^2\)See Kinds Codes of USPTO Patent Documents at \(\frac{www.uspto.gov}{www.uspto.gov}\) or MPEP 901.04. \(^3\)Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\)For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. \(^5\)Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \(^6\)Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

g					· · · · · · · · · · · · · · · · · · ·	
Substitute	for Form 1449	/PTO			Complete	if Known
ļ	INFOR	ΑΛΑ	TION DISCLOSUR	F	Application Number	09/895,787
100	_				Filing Date	June 30, 2001
KILE	EXTATE	EME	ENT BY APPLICAN	T	First Named Inventor:	Gurer Emir
1	8	(use a	s many sheets as necessary)		Art Unit	1752
MAR 147	95 절				Examiner Name	Gilliam, Barbara Lee
Sheet	235		of	4	Attorney Docket Number	006601.P019X3
CATA TRAC			II C DATEA	T DOCUMENTS	•	
			U.3. PATEN		·	
Examiner • Initials*	Cite No.	Num	Document Number ber-Kind Code ² (H known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	T			
		US				
		US-				
		US-			_	
		US-				
		US-				
		US-				
	ļ	US-		· · · · · · · · · · · · · · · · · ·		
		US-				
	_	US-				
ļ		US-				
		US-				
		US-				<u> </u>
		US-				ļ
		US-				

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
24	5 A	JP 05-166712	07-02-1993	Dainippon Screen Mfg Co Ltd		
34		JP 62-225269	10-03-1987	Hitachi Ltd Hitachi Tobu, Semiconductor Ltd		
867		JP 05-141058	06-08-1993	Sekisui Chem Co Ltd		

Examiner	8 (C.n.	Date Considered	10/1/06
Signature	3. C. Gilliam		10/1/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

					Operators if Virginia					
Substitute for Form 1449/PTO						Application Number	Compi	plete if Known		
INFORMATION DISCLOSURE								09/895,787		
STREEMENT BY APPLICANT						Filing Date First Named Inventor		June 30, 2001		
(Genes many sheets as necessary)						Art Unit	•	Gurer Emir		
8					•	Examiner Name		Cillian Barbara Las		
	14.2		of 4					Gilliam, Barbara Lee		
Sheet 3			#0000000000000000000000000000000000000	of	14	Attorney Docket Num				
TRADELLE			NON PATENT LITERATURE DOCUMENTS							
	Examiner Initials* Cite		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published							
K,			J. VAN SCHOOT et al., "The Mask Error: Causes and Implications for Process Latitude" (Part of the SPIE Conference on Optical Microlithography XII), March 1999, p. 250-260, SPIE Volume 3679, Santa Clara, CA.							
						npact of Mask Error on Full Chip Error Budgets*, (Part of the SPIE ography XII), March 1999, p. 261-275, SPIE Volume 3679, Santa				
	M.S. KRISHNA et al., *Characterization of Advance Conference on Advances in Resist Technology and Volume 3678, Santa Clara, CA.				dvances in Resist			•		
					Process, Equipment	emperature Profile on CD and DUV Resists*, (Part of the SPIE and Materials Control in Integrated Circuit Manufacturing V), 3882, Santa Clara, CA.				
		D.E. BORNSIDE et al., "Spin Coating 1989, p. 5185-5193, American Institu				g: One-dimensional mode", J. Appl. Phys. 66(11), December te of Physics.				
			R. KOBAYASHI et al., "Contributed Papers – Spiral Vortices in boundary Layer Transition Regime on a Rotating Disk" Acta Mechanica, 1980, p. 35, 71-82 (14 pages total), Volume 35/1-2, Springer-Verlag, Wien, New York.							
					g Photoresist Coat Sensitivities of 300 mm 14-419 (7 pages total) SPIE Volume 3331, Santa Clara, CA.					
						Challenges of Low-K Die ional, Volume 22, Numbe		ovember 1999, p. 56-64 (11		
	D.E. BORNSIDE, "Spin Coating", Aug Minnesota.			gust 1988, (201 pages total), Ph.D. Thesis, University of						
	<i>'</i>					od for Semiconductor Lith , (67 pages total), Massad			************	

-					
Examiner		\sim	•	Date	
	S (('- ∩n-			10/1100
Signature	٠٠٠ نا ١٠٠٠	mulam-		Considered	10/1/05

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute fo	or Form 1	449/PTO		Complete if Known				
INEQRMATION DISCLOSURE				Application Number	09/895,787	·····		
TPE				Filing Date	June 30, 2001			
y 4STAT		NT BY AP		First Named Inventor:	Gurer Emir	Gurer Emir		
MAR 1 4 2005				Art Unit	1752 Gilliam, Barbara Lee			
				Examiner Name				
Speet	*6	of	4	Attorney Docket Number	006601.P0192	X3		
RADE			NON PATENT LIT	FERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹							
Z	S. HAN, Modeling and Analysis of Extrusion-Spin Coating: An Efficient and Deterministic Photoresist Coating Method of Microlithography, February 2001, 179 pages, Massachusetts Institute of Technology.							
		-						
			-					
4—————————————————————————————————————		<u></u>	 	· -···-				
Examiner Signature	8	L. Gill	ian-		Date Considered	10/1/0)5	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.